

~~TOP SECRET RUFG~~

PHOTOGRAPHIC INTERPRETATION REPORT

SAM INSTALLATIONS IDENTIFIED ON KEYHOLE MISSIONS


25X1D

NPIC/R-234/64

April 1964

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Declassification Review by NIMA / DoD

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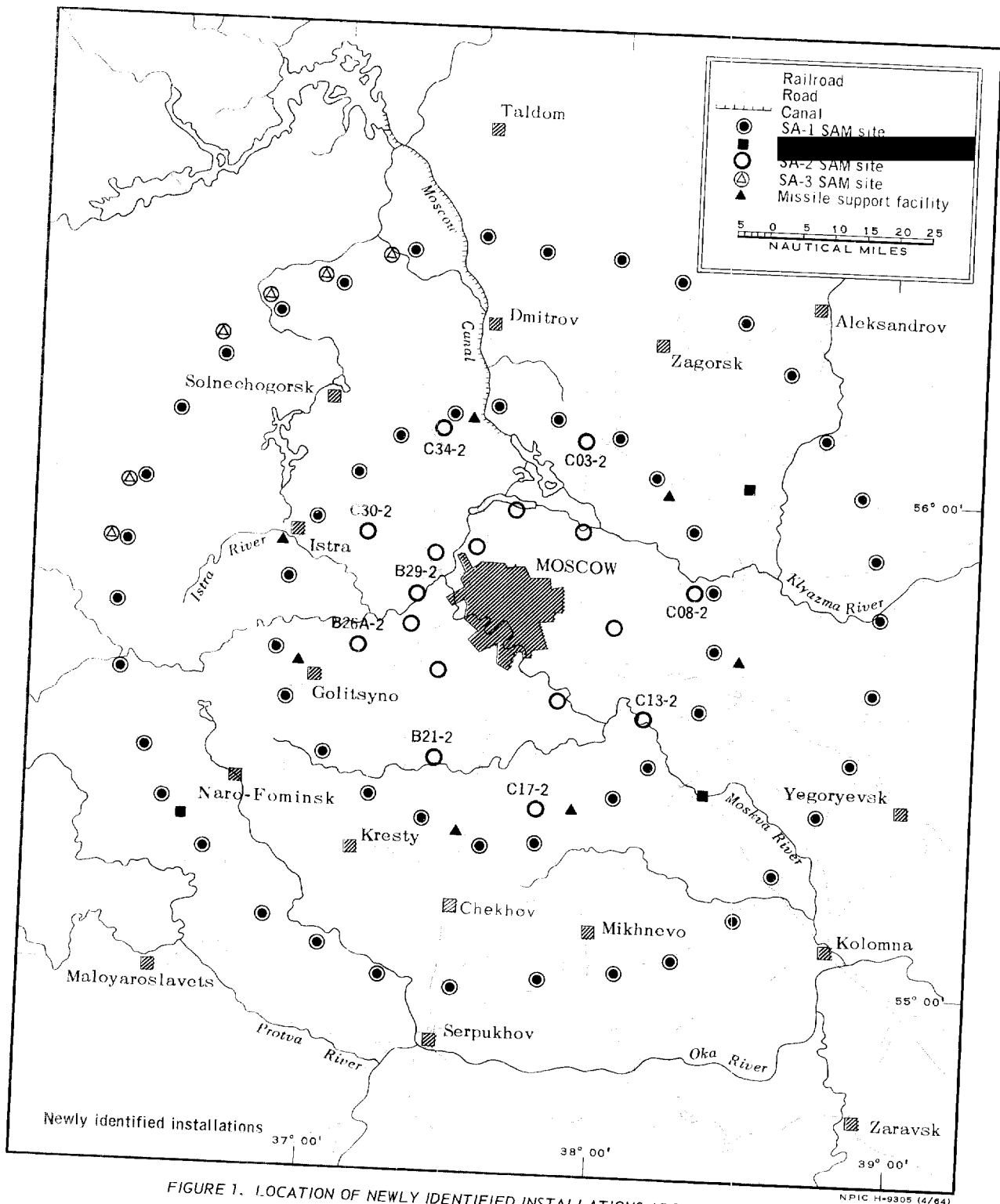


FIGURE 1. LOCATION OF NEWLY IDENTIFIED INSTALLATIONS AROUND MOSCOW.

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This report has been prepared in response to CIA requirement C-RR4-81,119, requesting information on surface-to-air missile (SAM) installations identified on photography from

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[REDACTED]
date for the study on which this report is based), a total of 48 SAM installations had been identified on this coverage.

Of particular significance among these are nine SA-2 sites* around Moscow forming a new defensive ring (Figure 1). In addition, four unoccupied SA-2 sites, which probably serve as alternates to other sites, were identified in Egypt (Figure 2). Other installations identified on the

*including 2 possibles and one probable

missions were 9 SA-3 SAM sites,** 3 SAM support facilities, and 18 other SA-2 sites in the USSR,*** 3 SA-2 sites in Poland, one in China, and one in North Korea (Figure 3).

Table 1 presents information on the Moscow sites and Table 2 provides information on the rest of the installations. For many sites interpretation of details such as site configuration was limited by heavy snow cover. Photographs [REDACTED] are provided (Figures 4-42) for all except six installations, for which interpretation was limited by poor image quality. Line drawings (Figure 43) are provided for these instead.

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**including one possible and one probable
***including one probable

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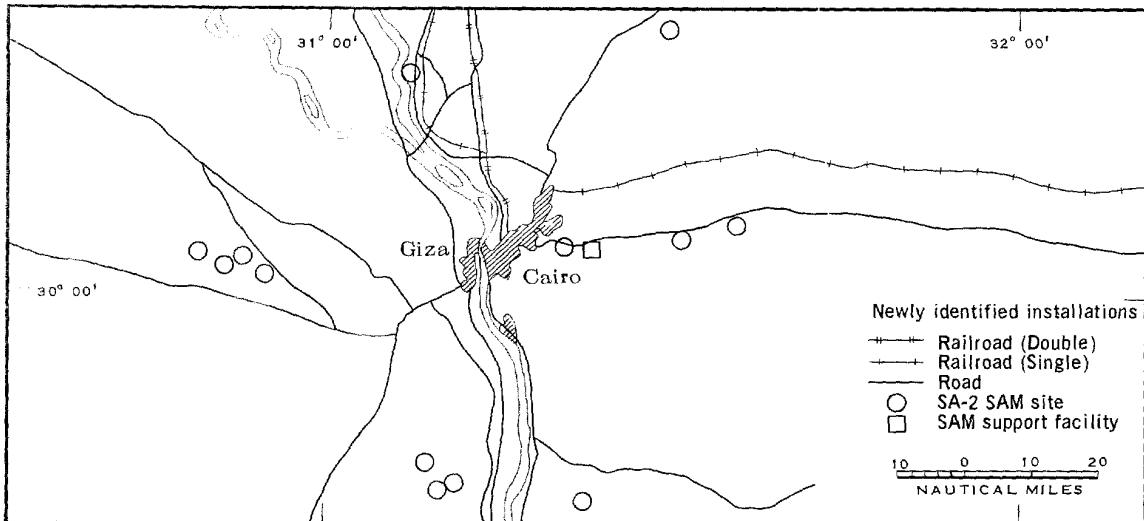


FIGURE 2. LOCATION OF NEWLY IDENTIFIED SA-2 SITES NEAR CAIRO.

NPIC H-9306 (4/64)

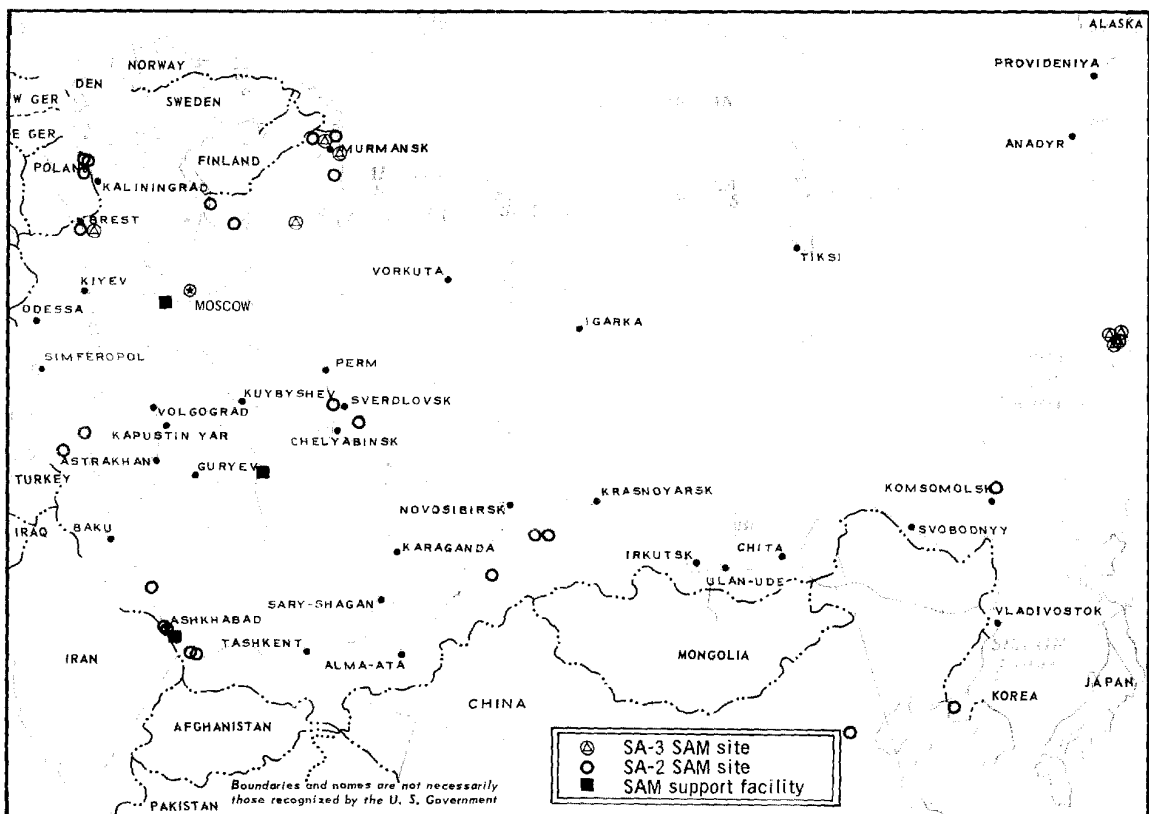


FIGURE 3. LOCATION OF OTHER NEWLY IDENTIFIED SAM INSTALLATIONS.

NPIC H-9307 (4/64)

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Table 1. Data on SA-2 SAM Sites Around Moscow Identified on [REDACTED]

SA-2 SAM Site	BE No	Geographic Coordinates	Configuration	Construction Status	Remarks	First Photographic Coverage	Negation Date	Map Reference (USATC Series 200; Sheet No, Edition Date)	NPIC No	Figure No
Moscow B21-2	[REDACTED]	55-27-30N 37-23-00E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0167-5HL, Apr 63	121-S	4
Moscow B26A-2	[REDACTED]	55-40-50N 37-05-40E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0167-4HL, Apr 63	58-P	5
Moscow B29-2	[REDACTED]	55-47-50N 37-16-00E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0167-5HL, Apr 63	58-Q	43
Moscow C08-2	[REDACTED]	55-48-50N 38-15-00E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0167-5HL, Apr 63	121-T	43
Moscow C17-2	[REDACTED]	55-22-30N 37-46-30E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0167-5HL, Apr 63	121-R	43
Moscow C30-2	[REDACTED]	55-54-10N 37-03-25E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0167-4HL, Mar 63	121-Q	6
Moscow C13-2 (probable site)	[REDACTED]	55-32-22N 38-06-10E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0167-5HL, Apr 63	121-U	43
Moscow C03-2 (possible site)	[REDACTED]	56-07-25N 37-53-20E	Snow cover precludes determination	U/C	Revetments appear square	[REDACTED]	[REDACTED]	0154-23HL, Apr 63	97-I	43
Moscow C34-2 (possible site)	[REDACTED]	56-06-10N 37-20-35E	Snow cover precludes determination	U/C	Revetments appear square	[REDACTED]	[REDACTED]	0154-22HL, Mar 63	97-H	7

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Table 2. Data on Other SAM Installations Identified on [REDACTED]

Installation	BE No	Geographic Coordinates	Configuration/ Type	Construction Status	Remarks	First Photographic Coverage	Negation Date	Map Reference (USATC Series 200; Sheet No, Edition Date)	NPIC No	Figure No
USSR										
SA-2 SAM Sites										
Ashkhabad B32-2	[REDACTED]	38-06-35N 55-09-20E	Snow cover precludes determination	Complete	--	[REDACTED]	[REDACTED]	0338-14HL, Apr 63	2-J	8
Bakharden B12-2		38-19-25N 57-41-50E	Undeterminable (no internal road pattern)	Complete	--			0338-14HL, Apr 63	5-B	9
Iokanga (no designator at present)		68-03-00N 39-31-45E	Snow cover precludes determination	U/C	Situated near Iokanga SAM Support Facility			0051-25HL, May 63	55-F	10
Kizyl-Arvat B30-2		39-06-50N 55-55-55E	Undeterminable (site under construction)	Late stage	--			0336-8A, Apr 59	11-C	11
Komsomolsk B13A-2		50-24-00N 137-26-50E	Undeterminable (six revetments present)	Late stage	Situated 3 nm E of Komsomolsk SAM Site B14-2			0204-8HL, Feb 62	13-Z1	12
Kutaisi B11-2		42-12-30N 42-59-10E	Link	Complete	--			0324-15HL, May 63	7-C	13
Leningrad D36-2		60-27-15N 30-13-40E	Possible link	Undeterminable	--			0103-25HL, Jun 62	50-Z1	14
Novokuznetsk B19-2		53-34-30N 87-07-00E	Snow cover precludes determination	Complete	--			0161-17A, Sep 59	14-N	15
Novokuznetsk B34A-2		53-58-40N 86-57-40E	Undeterminable (site U/C)	U/C	Situated approximately 2,000 ft SW of Novokuznetsk B34-2			0161-12A, Jul 59	14-M	16
Pechenga B21-2		69-23-30N 30-59-30E	Snow cover precludes determination	Complete	--			0051-17AL, Dec 59	20-L	17
Pechenga (no designator at present; probable site)		69-31-50N 31-09-20E	Snow cover precludes determination	U/C	Collocated with Pechenga Possible SA-3 SAM Site			0051-17AL, Dec 59	20-J	18
Podporozhye B03-2		61-05-29N 34-21-43E	Link	Complete	--			0102-16AL, Oct 59	43-A	19

See footnote at end of table.

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Table 2. (Continued)

Installation	BE No	Geographic Coordinates	Configuration/Type	Construction Status	Remarks	First Photographic Coverage	Negation Date	Map Reference (USATC Series 200; Sheet No, Edition Date)	NPIC No	Figure No
USSR										
SA-2 SAM Sites (Continued)										
Pyatigorsk		43-59-11N	Star	Complete	--			0324-5AL, Oct 59	29	20
A25-2		42-55-40E			--			0156-25HL, Nov 63	71	21
Shatrovo		56-36-30N	Star	Complete						
A32-2		64-31-00E								
Sverdlovsk		56-59-15N	Link	Late stage	--			0156-18HL, Jun 63	39-J	22
B05A-2		60-51-30E		Complete	--			0337-16A, May 60	18-B	23
Tedzhen		37-29-20N	Possible link		--			0337-16A, May 60	18-A	24
B07-2		61-01-05E	Possible link	Complete	--			0239-13HL, Jan 63	13-D	25
Tedzhen		37-11-35N	Possible link		--					
C24-2		60-03-10E		Complete						
Zyryanovsk		49-44-20N	Snow cover precludes determination							
C28-2		83-36-15E								
SA-3 SAM Sites										
Murmansk		69-20-45N	G	Complete	Orientation 320°; site singly deployed			0051-18HL, Apr 63	12-Y	26
D05-3		34-00-00E								
Pechenga (no designator at present; possible site)		69-31-35N	Snow cover precludes determination	U/C	Snow cover precludes determination of orientation; site collocated with Pechenga Probable SA-2 SAM Site			0051-17AL, Dec 59	20-K	18
		31-09-30E								
Petropavlovsk-Kamchatskiy		53-05-40N	Snow cover precludes determination	Complete	Collocated with Petropavlovsk-Kamchatskiy SAM Site A06-2			0194-17A, Jun 58	11-F1	27
A06-3		158-51-25E								
Petropavlovsk-Kamchatskiy		52-55-10N	F	Complete	Collocated with Petropavlovsk-Kamchatskiy SAM Site A16-2			0194-17A, Jun 58	12-N	28
A16-3		158-45-20E								
Petropavlovsk-Kamchatskiy (no designator at present)		53-08-00N	C	Complete	Singly deployed			0194-17A, Jun 58	12-P	29
		158-23-00E								

See footnote at end of table.

Table 2. (Continued)

Installation	BE No	Geographic Coordinates	Configuration Type	Construction Status	Remarks	First Photographic Coverage	Negation Date	Map Reference (USATC Series 200; Sheet No, Edition Date)	NPIC No	Figure No
USSR										
SA-3 SAM Sites (Continued)										
Petropavlovsk-Kamchatskiy (no designator at present; probable site)	None	52-55-15N 156-30-10E	Snow cover precludes determination	Complete	Singly deployed	25X1D				
								0194-17A, Jun 58	12-O	30
Pruzhany B06-3 Severodvinsk A20-3		52-40-00N 24-28-20E 64-27-00N 39-45-00E	F Snow cover precludes determination	Complete Complete	Orientation approximately 310°; singly deployed Snow cover precludes determination of orientation; site collocated with Severodvinsk SAM Site A20-2					
								0168-22HL, Feb 63 0092-22HL, Mar 63	64-G 7-F1	43 31
Volkovysk A36-3		53-10-10N 24-28-00E	Snow cover precludes determination	Complete	Orientation approximately NW (snow cover limits interpretation); site singly deployed					
								0168-17HL, Dec 62	80-G	32
SAM Support Facilities										
Alga		49-55-00N 57-25-00E	Type II	Complete	--					
Ashkhabad		37-58-20N 58-24-19E	Type II	Complete	--					
								0236-14A, Nov 59 0338-14HL, Apr 63	1-J 2-K	33 34
Tula		54-09-50N 37-34-20E	Type I	Complete	--					
								0167-15A, Oct 58	83-F	35
EGYPT										
SA-2 SAM Sites										
Cairo (no designator at present)	None	29-47-40N 31-09-00E	See Remarks	Undeterminable	Probable alternate to Cairo SAM Site B21-2	Sites consist of scars for 6 launch positions and central guidance area. No retvetting present. No internal road pattern or on-site support facilities discern-		0447-11AL, May 61	23-A1	36
Cairo (no designator at present)	None	29-48-00N 31-09-10E (approximately)	See Remarks	Undeterminable	Probable alternate to Cairo SAM Site B21-2			0447-11AL, May 61	23-A	36
Cairo (no designator at present)	None	30-02-45N 30-52-20E	See Remarks	Undeterminable	Probable alternate to Cairo SAM Site B27-2			0447-11AL, May 61	2-B3	37

See footnote at end of table.

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Table 2. (Continued)

Installation	BE No	Geographic Coordinates	Configuration/Type	Construction Status	Remarks	First Photographic Coverage	Negation Date	Map Reference (USATC Series 200; Sheet No, Edition Date)	NPIC No	Figure No
EGYPT										
SA-2 SAM Sites (Continued)										
Cairo (no designator at present)	None	30-02-00N 30-52-50E	See Remarks	Undeterminable	Probable alternate to Cairo SAM Site B27-2	ible. Absence of equipment indicates sites probably are inoperational and alternates to other sites		0447-11AL, May 61	2-B2	37
POLAND										
SA-2 SAM Sites										
Gdansk		54-21-20N		Complete	--			0169-14AL, Feb 62	37-A	38
A11-2		18-49-00E		Complete	--			0169-9HL, Nov 63	38-D	39
Gdansk		54-37-00N		Complete	--			0169-9HL, Nov 63	37-B	40
B03-2		18-48-40E		Complete	--					
Gdansk		54-41-45N		Complete	--					
C34-2		18-25-00E								
CHINA										
SA-2 SAM Site										
Peiping		39-34-00N	Link	Complete	--			0381-1AL, Jan 63	50-Z6	41
C18-2		116-24-40E								
NORTH KOREA										
SA-2 SAM Site										
Pyongyang		38-48-00N	Link	Complete	--			0380-7AL, Oct 62	11-L1	42
B23-2		125-27-50E								

*See Table 1 for data on Moscow sites.

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FIGURE 4. MOSCOW SAM SITE B21-2.

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FIGURE 5. MOSCOW SAM SITE B26A-2.

25X1D



FIGURE 6. MOSCOW SAM SITE C30-2.

25X1D



FIGURE 7. MOSCOW POSSIBLE SAM SITE C34-2.

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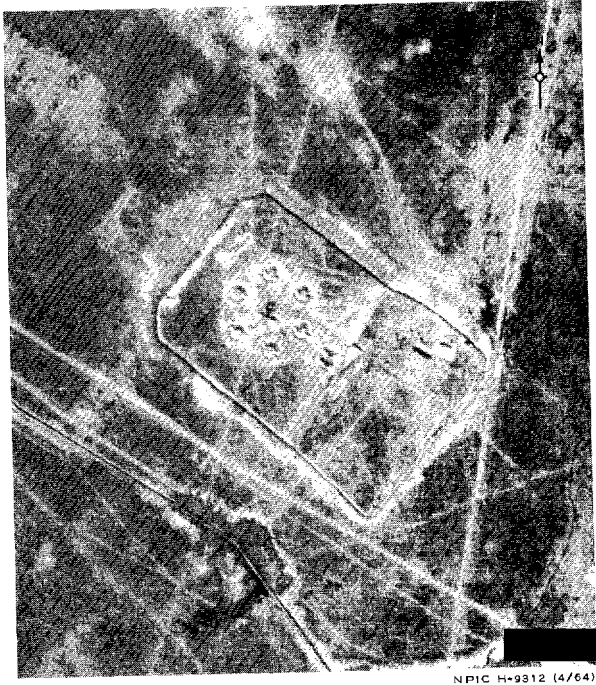


FIGURE 8. ASHKHABAD SAM SITE B32-2.

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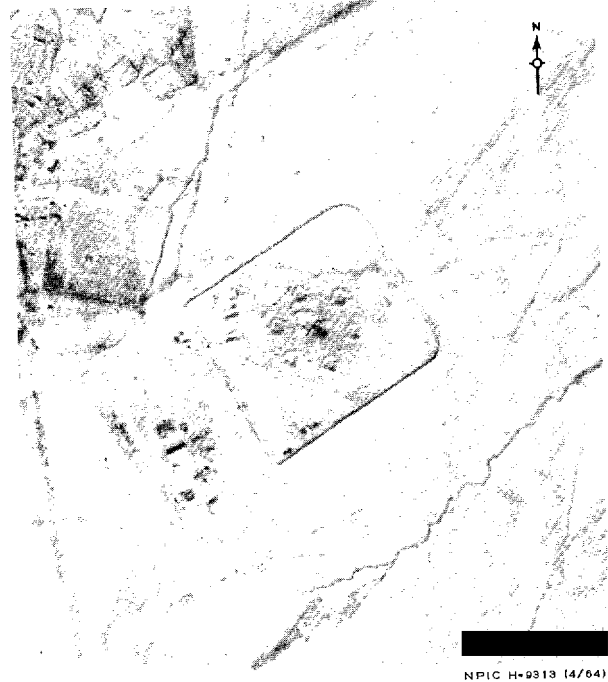


FIGURE 9. BAKHARDEN SAM SITE B12-2.

25X1D

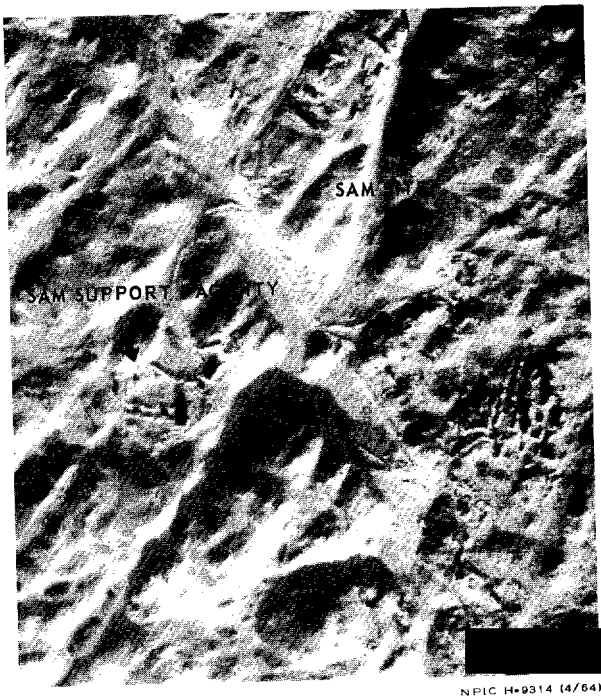


FIGURE 10. IOKANGA SA-2 SAM SITE (NO DESIGNATOR AT PRESENT).

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FIGURE 11. KIZYL-ARVAT SAM SITE B30-2.

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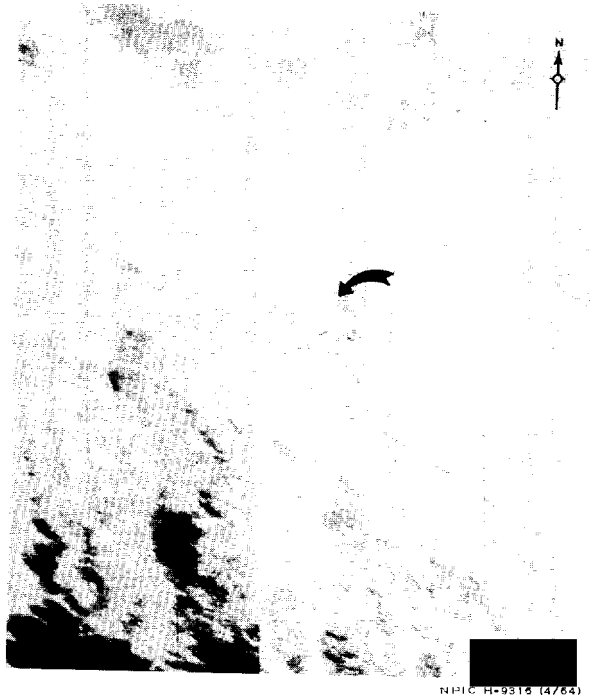


FIGURE 12. KOMSOMOLSK SAM SITE B13A-2.

25X1D



FIGURE 13. KUTAI SI SAM SITE B11-2.

25X1D



FIGURE 14. LENINGRAD SAM SITE D36-2.

25X1D



FIGURE 15. NOVOKUZNETSK SAM SITE B19-2.

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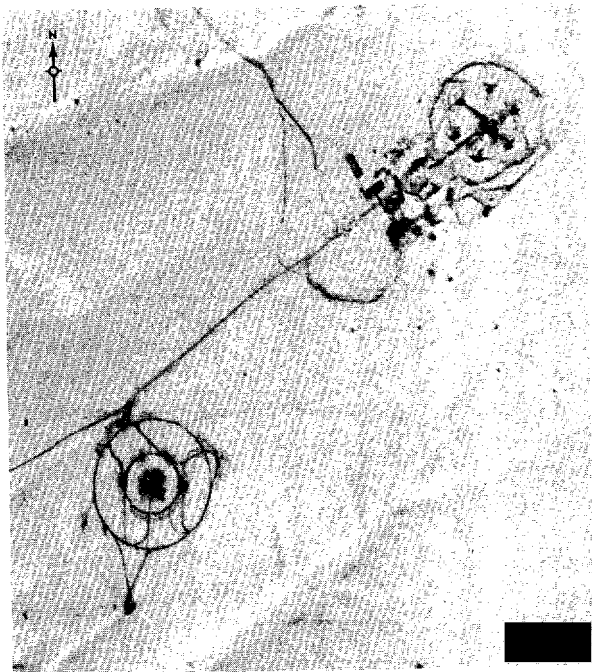


FIGURE 16. NOVOKUZNETSK SAM SITE B34A-2.

25X1D

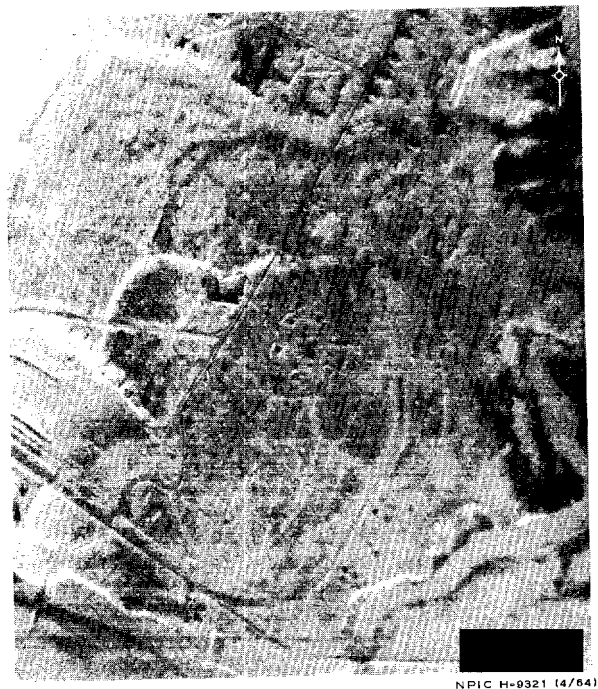


FIGURE 17. PECHENGA SAM SITE B21-2.

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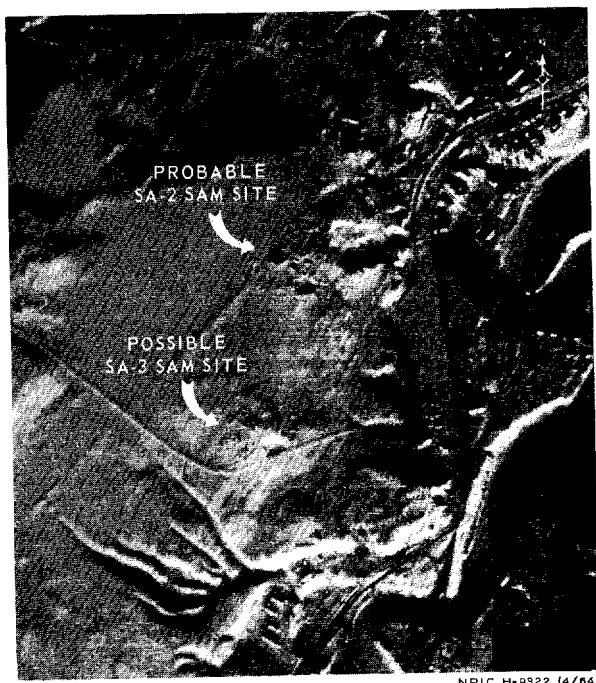


FIGURE 18. PECHENGA PROBABLE SA-2 SAM SITE AND PECHENGA POSSIBLE SA-3 SAM SITE (NO DESIGNATORS AT PRESENT).

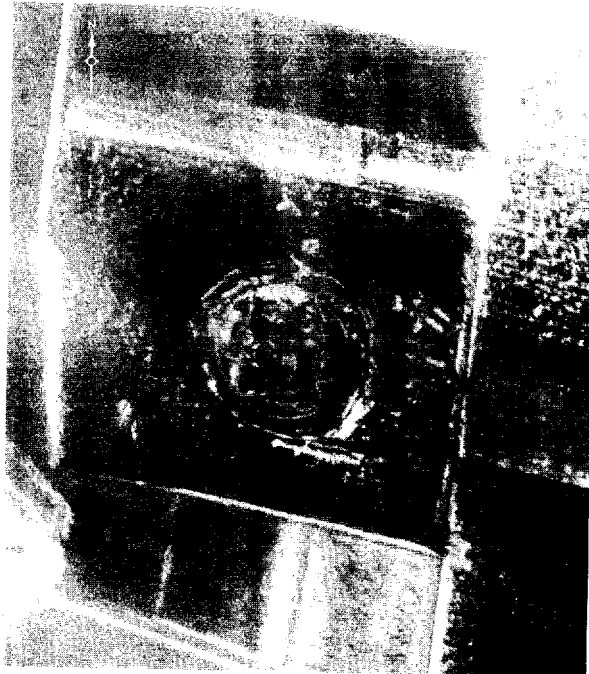
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FIGURE 19. PODPOROZHYE SAM SITE B03-2.

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NPIC H-9324 (4/64)

FIGURE 20. PYATIGORSK SAM SITE A25-2.



NPIC H-9325 (4/64)

FIGURE 21. SHATROVO SAM SITE A32-2.

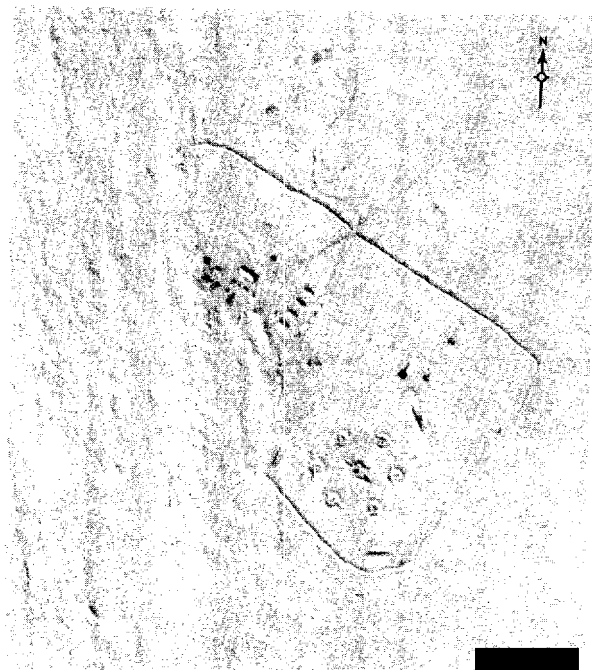
25X1D

25X1D



NPIC H-9326 (4/64)

FIGURE 22. SVERDLOVSK SAM SITE B05A-2.



NPIC H-9327 (4/64)

FIGURE 23. TEDZHEN SAM SITE B07-2.

25X1D

25X1D

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FIGURE 24. TEDZHEN SAM SITE C24-2.

25X1D



FIGURE 25. ZYRYANOVSK SAM SITE C28-2.

25X1D



FIGURE 26. MURMANSK SAM SITE D05-3.

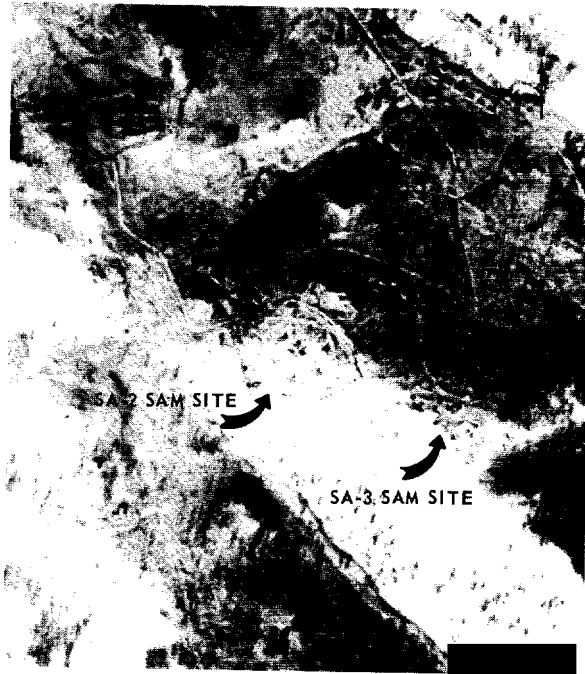
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FIGURE 27. PETROPAVLOVSK-KAMCHATSKIY SAM SITE A06-3.

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NPIC H-9332 (4/64)
FIGURE 28. PETROPAVLOVSK-KAMCHATSKIY SAM SITE A16-3.

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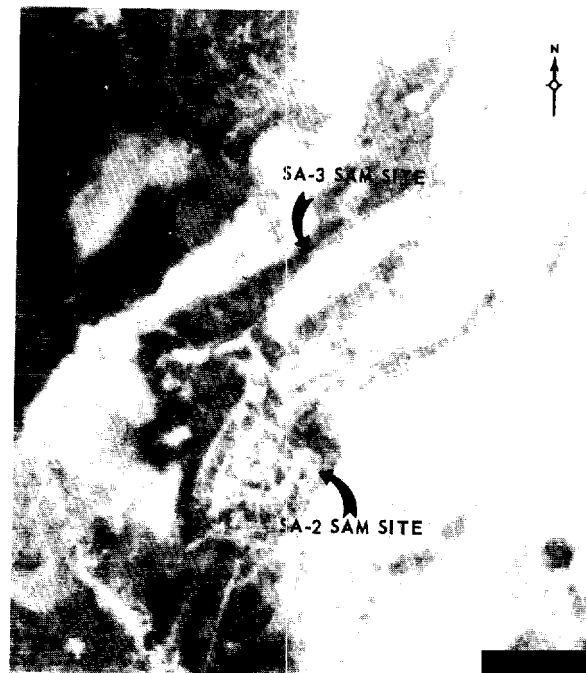
NPIC H-9333 (4/64)
FIGURE 29. PETROPAVLOVSK-KAMCHATSKIY SA-3 SAM SITE (NO DESIGNATOR AT PRESENT).

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NPIC H-9334 (4/64)
FIGURE 30. PETROPAVLOVSK-KAMCHATSKIY PROBABLE SA-3 SAM SITE (NO DESIGNATOR AT PRESENT).

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NPIC H-9335 (4/64)
FIGURE 31. SEVERODVINSK SAM SITE A20-3.

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FIGURE 32. VOLKOVYSK SAM SITE A36-3.

25X1D



FIGURE 33. ALGA SAM SUPPORT FACILITY.

25X1D



FIGURE 34. ASHKHABAD SAM SUPPORT FACILITY.

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FIGURE 35. TULA SAM SUPPORT FACILITY.

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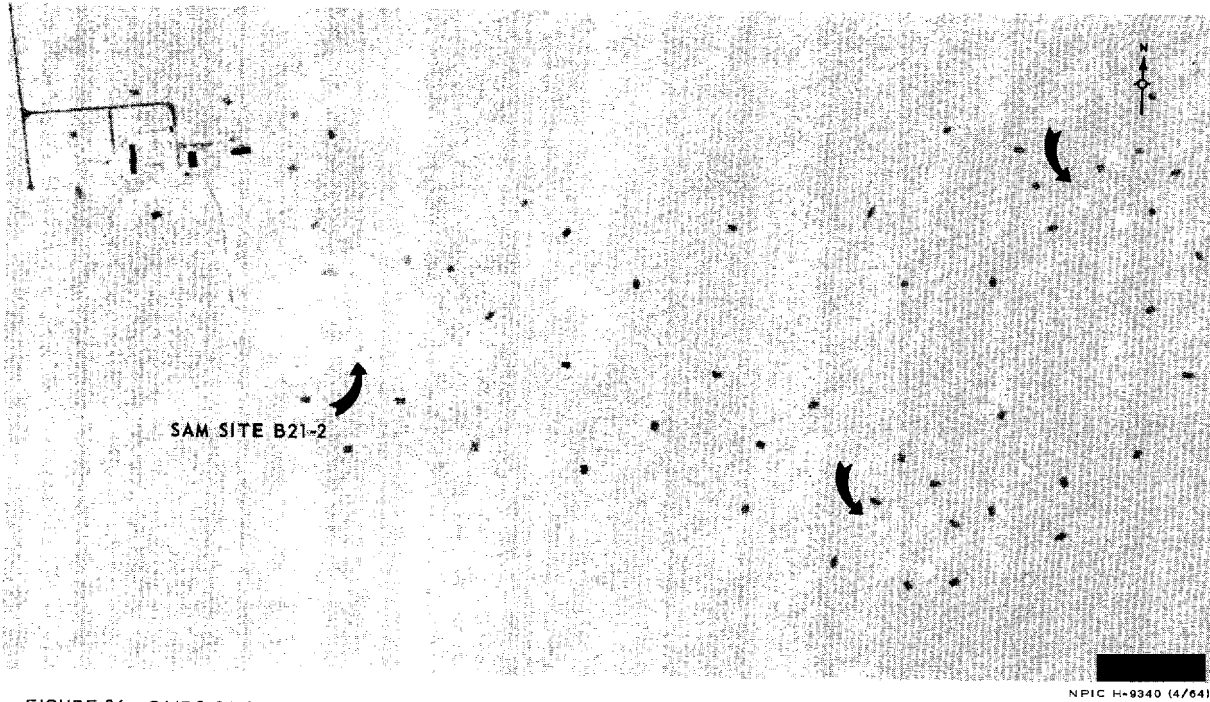


FIGURE 36. CAIRO SA-2 SAM SITES (PROBABLE ALTERNATES TO CAIRO SAM SITE B21-2; NO DESIGNATORS AT PRESENT).
NPIC H-9340 (4/64)

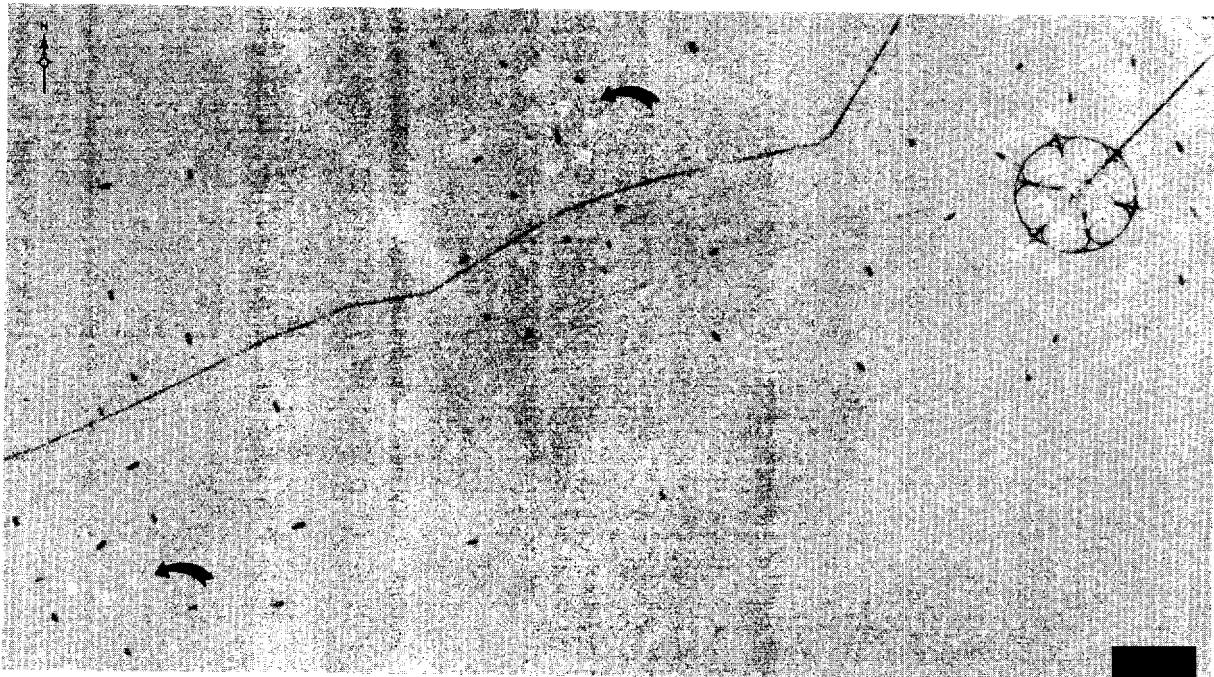
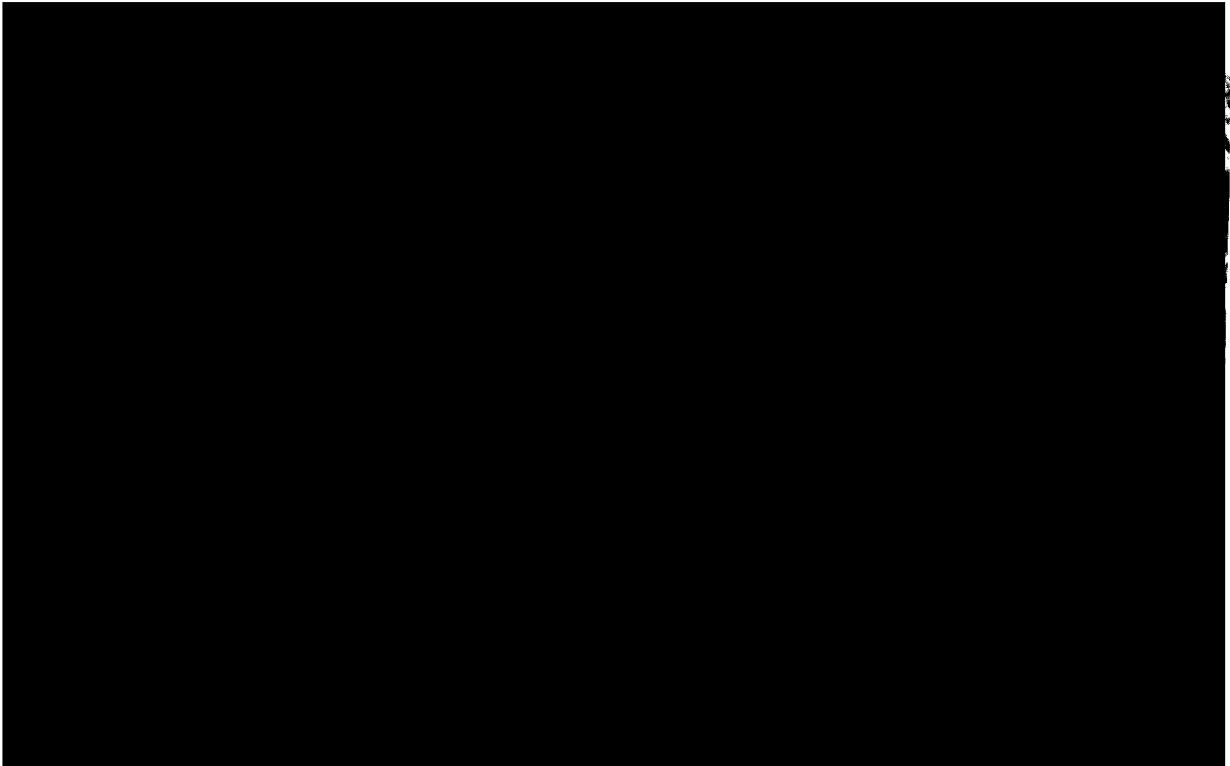


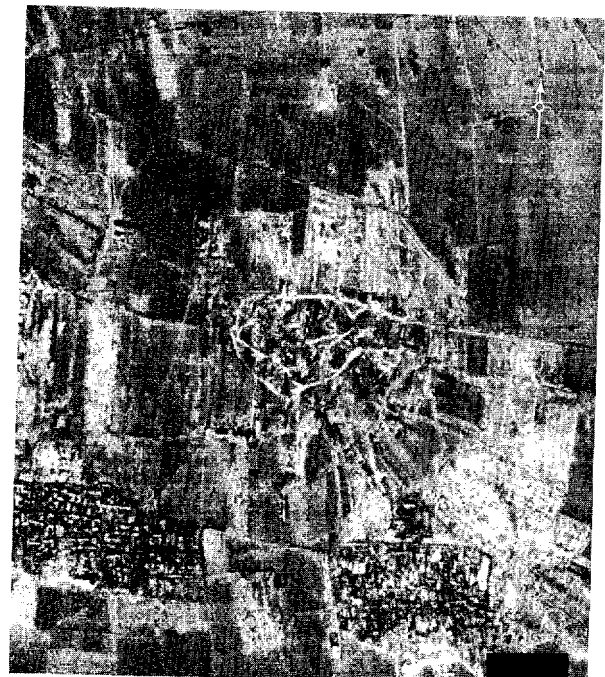
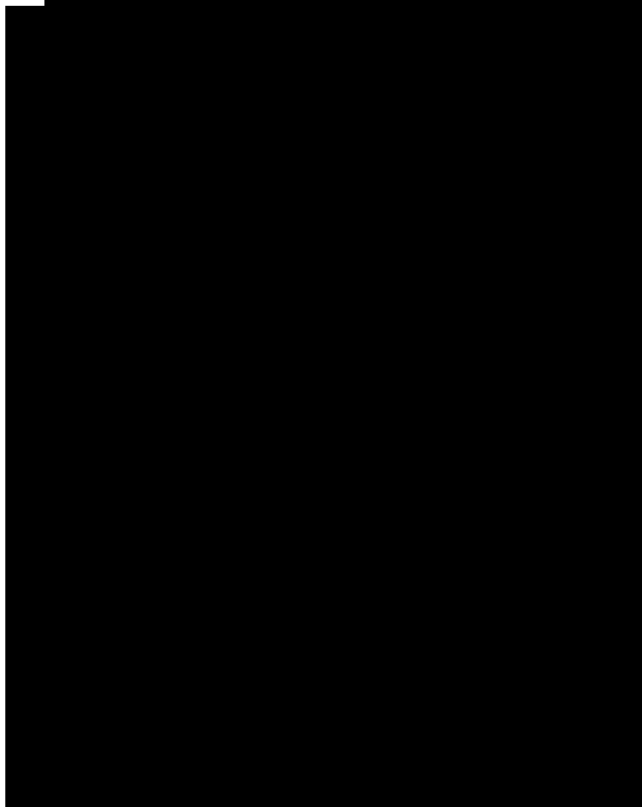
FIGURE 37. CAIRO SA-2 SAM SITES (PROBABLE ALTERNATES TO CAIRO SAM SITE B27-2; NO DESIGNATORS AT PRESENT).
NPIC H-9341 (4/64)

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25X9



NPIC H-9345 (4/64)
FIGURE 41. PEIPING SAM SITE C18-2.

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FIGURE 42. PYONGYANG SAM SITE B23-2.

NPIC H-9346 (4/64)

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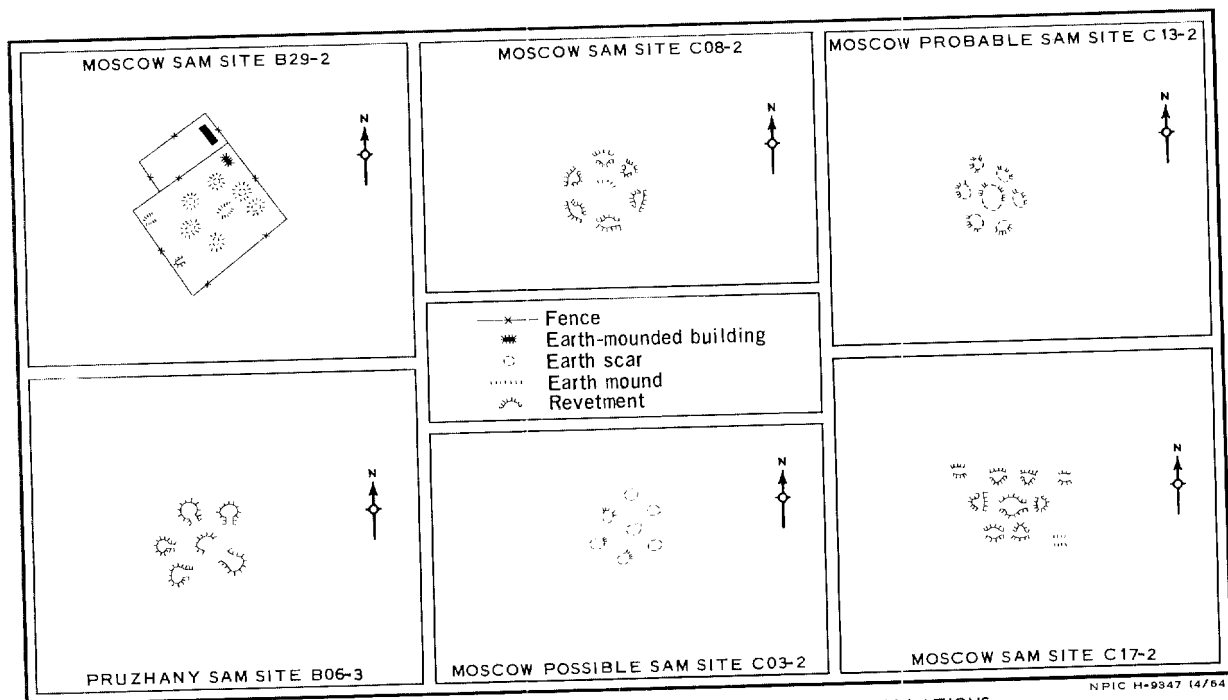


FIGURE 43. DRAWINGS OF OTHER NEWLY IDENTIFIED SAM INSTALLATIONS.

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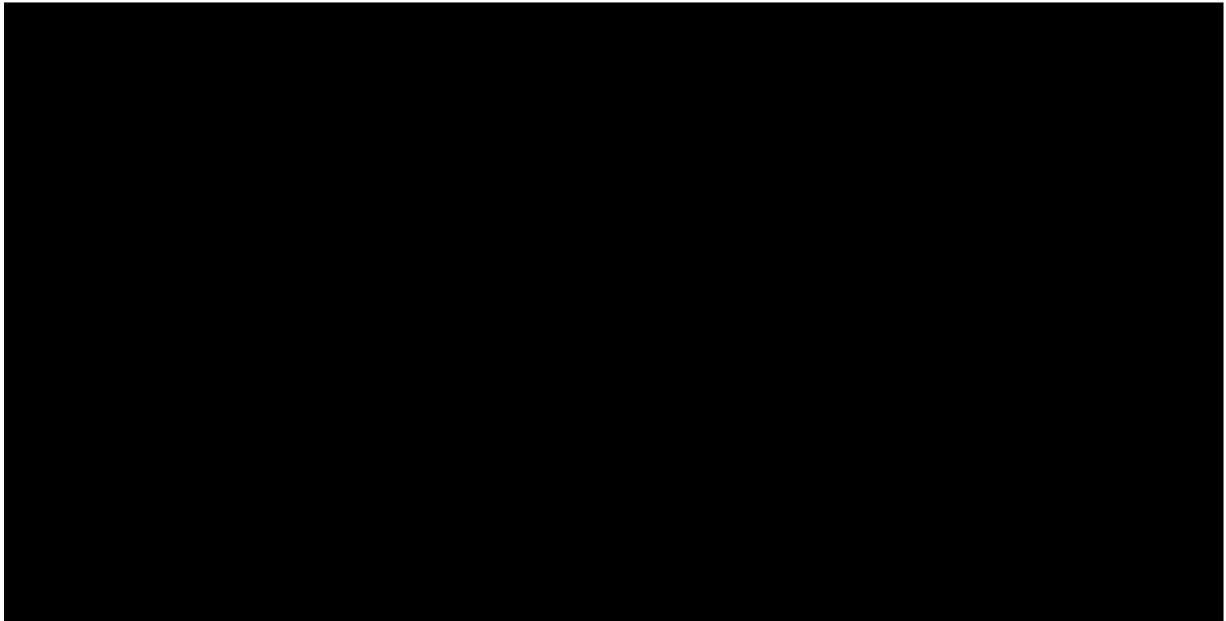
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REFERENCES

PHOTOGRAPHY

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REQUIREMENT

C-RR4-81,119

NPIC PROJECT

N-257/64

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Approved For Release 2001/08/21 : CIA-RDP78B04560A002000010049-0
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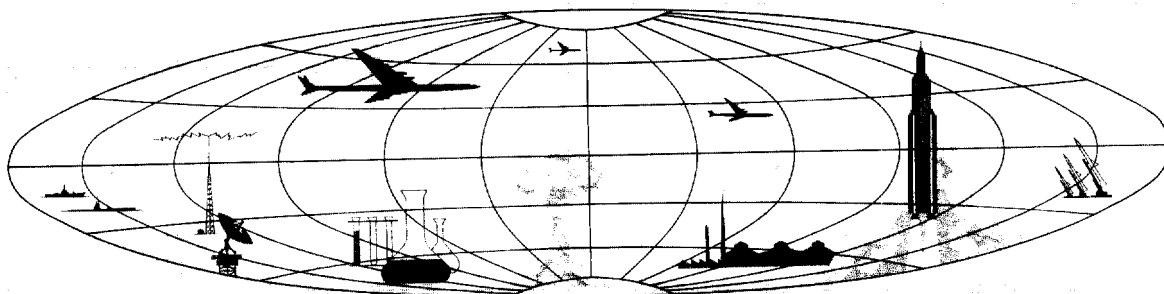
DIA

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